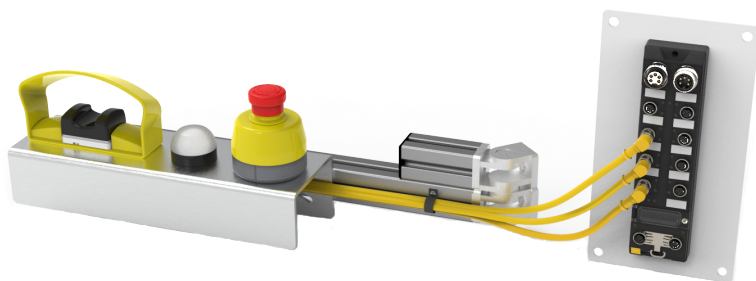


# Safety Runbar Station

## Pre-Engineered Solutions for Production Cells



### Technical Data and Part Number Key

#### (RUNB)

##### Safety Runbar

Includes:

- Ergonomic Cycle Switch with Guard
- Combination Indicator Light/Switch
- Emergency Stop Push Button Switch
- Turck M12 Cordsets from switches to end of the bar
- Turck Splitter (for safety device integration)

Optional Items: TBIP or TBPB Hybrid Safety Block

Connectivity not included:

- Runbar to splitter
- Splitter to safety device (light curtain or other)

Devices not include: Required Safety Device (light Curtain or other)

#### (L)

##### Runbar Length (mm)

L501 is 501 mm measured to the hinge

#### (PIN)

##### Safety Device Connectivity

BAN 8PIN is for Banner 8-pin safety devices (light curtains)

VAR 5PIN is for various 5-pin safety devices such as Keyence or Banner

#### (IO)

##### Hybrid Safety Block

N = No IO device

CIP L4 = includes a TBIP-L4-FDIO1-2IOL and mounting plate

CIP LL = includes a TBIP-LL-FDIO1-2IOL and mounting plate

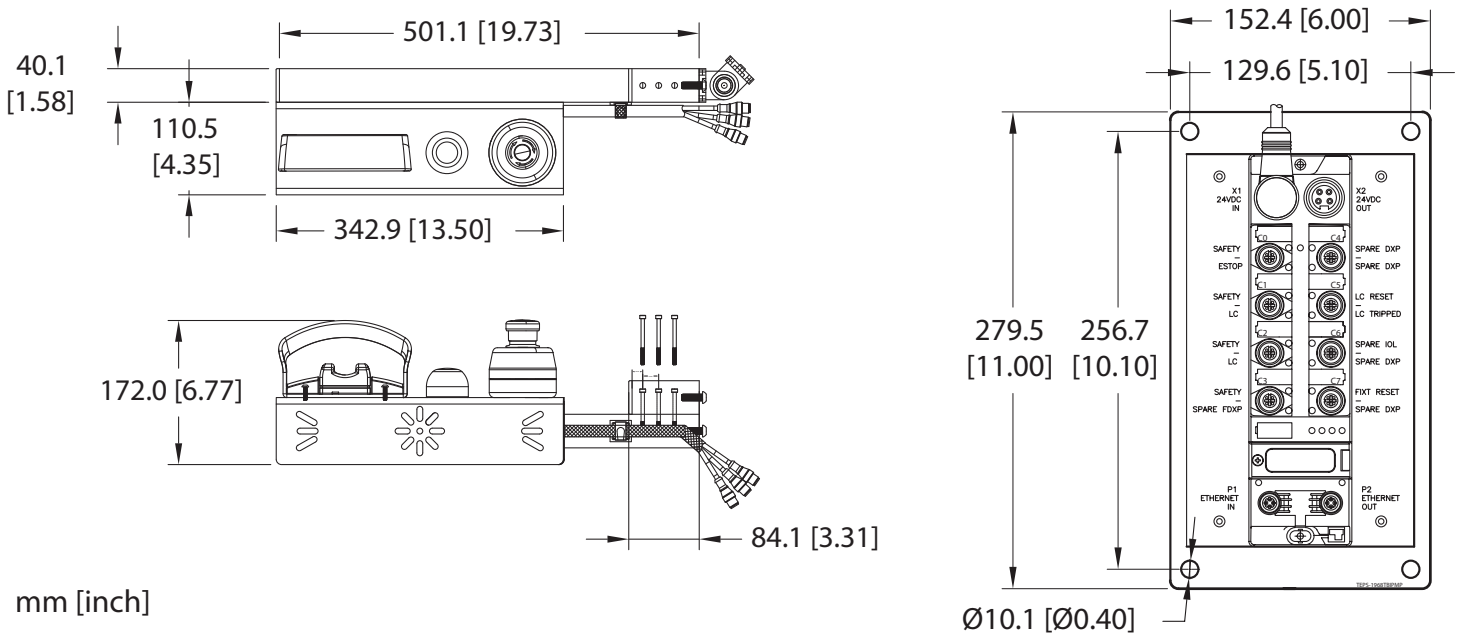
PN L5 = includes a TBPB-L1-FDIO1-2IOL and mounting plate

PN LL = includes a TBPB-LL-FDIO1-2IOL and mounting plate

### Features

- These pre-engineered solutions provide the ability to control access and other processes at the work cell
- Includes an ergonomic cycle switch with guard, combination indicator light and switch, and emergency stop switch
- Optional Turck Hybrid Safety IO with two secure digital inputs, two secure digital channels as FDI or FDO, four secure digital FDI channels, and 2 IO-Link Master V1.1 slots
- Runbars can be populated with additional E-stops, gate switches and OSSD devices such as safety light curtains
- Meets up to SIL 3 / PL d safety requirements

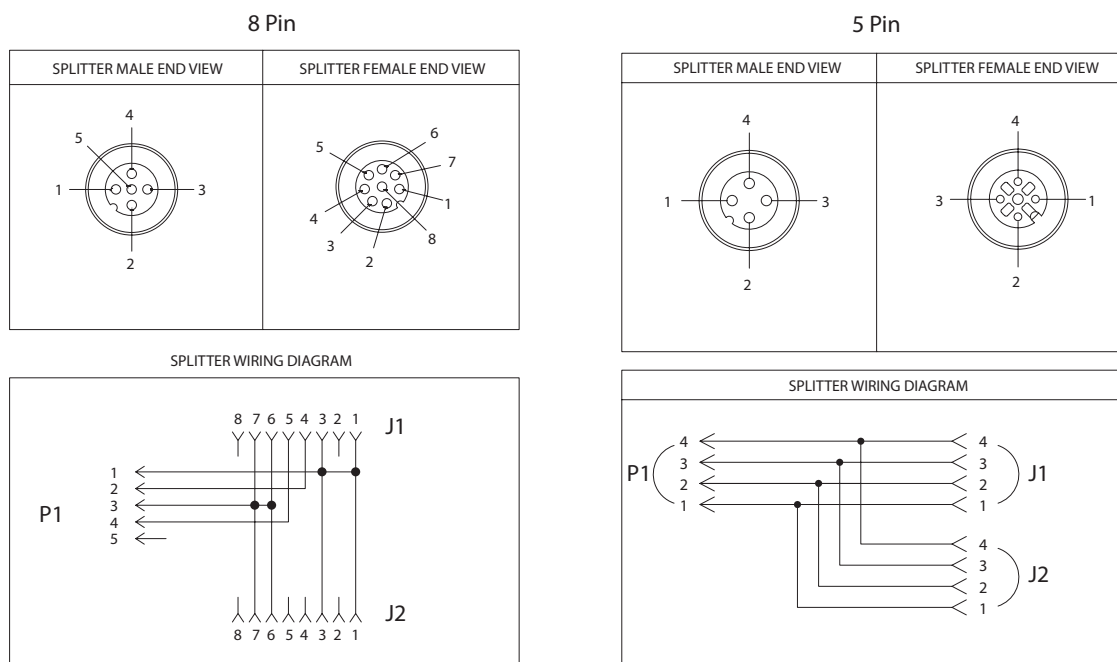
## Product Dimensions



## Pinouts - Switches at the End of the Bar

| CYCLE SWITCH<br>RK 4.4T-0.7-RS 4.4T/S1587                                                                           | INDICATOR LIGHT/SWITCH<br>RK 4.4T-0.6-RS 4.4T/S1587                                                                     | E-STOP SWITCH<br>RK 4.5T-0.5-RS 4.5T/S1587                                                                 |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <p>1 = BROWN (12-30 VDC)<br/>2 = WHITE (JOB LIGHT ENABLE 4-30VDC)<br/>3 = BLUE (12-30 VDC)<br/>4 = BLACK (LOAD)</p> | <p>1 = BROWN (+18-30 VDC)<br/>2 = WHITE (NOT USED)<br/>3 = BLUE (-18-30 VDC)<br/>4 = BLACK (I/O LINK COMMUNICATION)</p> | <p>1 = BROWN (CH1b)<br/>2 = WHITE (CH2a)<br/>3 = BLUE (0 VDC)<br/>4 = BLACK (CH1a)<br/>5 = GRAY (CH2b)</p> |

## Pinouts - Splitter



## Selection Guide

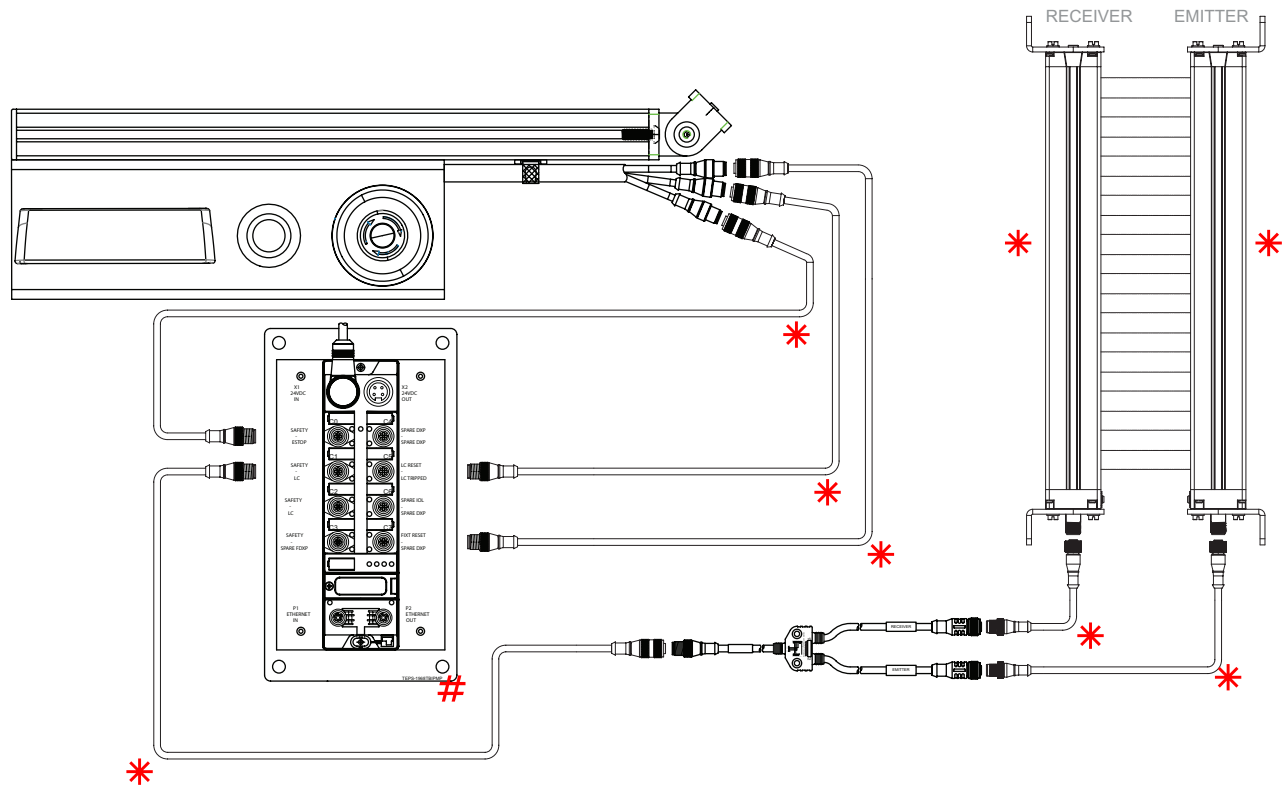
### IO Total Variants

| Part Number                            | Hybrid Safety I/O  | Safety Protocol | Power Connection | Suggested Safety Device                 |
|----------------------------------------|--------------------|-----------------|------------------|-----------------------------------------|
| RUNB-L501-BAN 8PIN-CIP L4<br>200019993 | TBIP-L4-FDIO1-2IOL | CIP Safety      | 4-pin 7/8"       | Banner 8 Pin Devices                    |
| RUNB-L501-BAN 8PIN-CIP LL<br>200019995 | TBIP-LL-FDIO1-2IOL | CIP Safety      | L-coded M12      | Banner 8 Pin Devices                    |
| RUNB-L501-BAN 8PIN-PN L5<br>200019996  | TBPN-L1-FDIO1-2IOL | PROFIsafe       | 5-pin 7/8"       | Banner 8 Pin Devices                    |
| RUNB-L501-BAN 8PIN-PN LL<br>200019997  | TBPN-LL-FDIO1-2IOL | PROFIsafe       | L-coded M12      | Banner 8 Pin Devices                    |
| RUNB-L501-BAN 8PIN-N<br>200019998      | None               | None            | None             | Banner 8 Pin Devices                    |
| RUNB-L501-VAR 5PIN-CIP L4<br>200019999 | TBIP-L4-FDIO1-2IOL | CIP Safety      | 4-pin 7/8"       | Various 5 pin devices including Keyence |
| RUNB-L501-VAR 5PIN-CIP LL<br>200020001 | TBIP-LL-FDIO1-2IOL | CIP Safety      | L-coded M12      | Various 5 pin devices including Keyence |
| RUNB-L501-VAR 5PIN-PN L5<br>200020002  | TBPN-L1-FDIO1-2IOL | PROFIsafe       | 5-pin 7/8"       | Various 5 pin devices including Keyence |
| RUNB-L501-VAR 5PIN-PN LL<br>200020004  | TBPN-LL-FDIO1-2IOL | PROFIsafe       | L-coded M12      | Various 5 pin devices including Keyence |
| RUNB-L501-VAR 5PIN-N<br>200020005      | None               | None            | None             | Various 5 pin devices including Keyence |

## Accessories

| ID Number | Part Number             | Description                                    | Note                                       |
|-----------|-------------------------|------------------------------------------------|--------------------------------------------|
| 777027645 | RK 4.4T-*-RS 4.4T/S1055 | From Runbar to Splitter                        | Red Plug Bodies for CIP Safety             |
| 777000208 | RK 4.4T-*-RS 4.4T       | From Runbar to Splitter                        | Yellow Plug Bodies for PROFISafe           |
| 777012678 | RKC 8T-*-RSC 8T/S1055   | From Splitter to 8 Pin Safety Device           | Red Plug Bodies for CIP Safety             |
| 777027944 | RK 8T-*-RS 8T           | From Splitter to 8 Pin Safety Device           | Yellow Plug Bodies for PROFISafe           |
| 777027645 | RK 4.4T-*-RS 4.4T/S1055 | From Splitter to 5 Pin Safety Device           | Red Plug Bodies for CIP Safety             |
| 777000208 | RK 4.4T-*-RS 4.4T       | From Splitter to 5 Pin Safety Device           | Yellow Plug Bodies for PROFISafe           |
| 100029743 | TSC_FULL_LICENSE        | License for Turck Safety Configurator Software | Required for programming Hybrid Safety I/O |

## Typical Application Example



**\*** Denotes items to be specified and supplied separately

**#** Denotes optional item